

ALL THE MAIN CABLES ARE OF OUR MANUFACTURE.





DAY-SHIFT EMPLOYEES MASSED AT FRONT OF WORKS.



The B. I. W. Co., Ltd.

## Agents and Representatives.

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### *SCOTLAND:*

MORRIS, WARDEN & Co.,  
25, GORDON STREET,  
GLASGOW.

### *AUSTRALIA:*

B. DEAKIN,  
63, QUEEN STREET,  
MELBOURNE.

### *SOUTH AFRICA:*

H. C. NEWTON,  
P.O. Box No. 303,  
CAPE TOWN.

### *MEXICO:*

J. W. GELLING,  
593, APARTADO,  
MEXICO, D.F.

### *ARGENTINE:*

AGAR, CROSS & Co.,  
124, CALLE DEFENSA 136,  
BUENOS AYRES.

### *INDIA:*

H. MARRINER BRIGG,  
GRAND HOTEL,  
CALCUTTA.

## For House Wire & Accessories.

A. F. SERGEANT,

51, LINCOLN INN,  
BIRMINGHAM.

W SEVENOAKES,

13, BROWNLOW STREET,  
HOLBORN, W.C.


S. HARTFORD,

CHAPEL STREET,  
SALFORD.



## The B. I. W. Co., Ltd.

### NOTES.

HE BRITISH INSULATED WIRE COMPANY, LTD., was founded in 1891 with a capital of £60,000, for the manufacture of Paper Insulated Underground Cables of all classes. Work was commenced early in the following year, the first order of importance obtained by the Company being for the supply of the whole of the High and Low Tension Cables for the City of London Electric Lighting Company, Ltd., still the largest of the Electric Supply undertakings in this country.

The reliability and permanence of these cables was soon recognised, and the field of the Company's operations increased by orders for new undertakings and for the replacement of cables made by other and earlier manufacturers.

The capital of the Company has been, step by step, increased until now it stands at £1,000,000, with £250,000 of debentures.

The Company's Factory at Prescot has grown from small beginnings until it now covers a total of 15 acres, and comprises not only the most extensive Electric Cable Factory in this country (and perhaps in the world), but also a separate department for the rolling and drawing of the necessary copper wire, and the making and machining of joint boxes, section pillars, etc.



## The B. I. W. Co., Ltd.

The Employees now number over 2,500, and the Expert and Commercial Staff over 200.

Two new shops, each over 300 ft.  $\times$  76 ft. span, are now in process of erection, to provide for the necessary machinery to meet the increase in the cable and accessories business: this, in spite of the fact that only last year extensive additions were completed.

Preparations are also being made to provide for the increase of the copper rolling and wire drawing plants, so as to bring the output in these departments up to 240 tons of finished wire per week.

THE BRITISH INSULATED WIRE COMPANY has a record of continuous progress, and during the period of its existence has introduced many improvements in the art of cable making.

The Company were the first makers of paper insulated cables in this country. The first to manufacture concentric and triple concentric cables on a commercial scale. The first to provide a complete system of junction boxes for underground mains. They introduced the system of twin lead covered house wire cables, now so largely adopted. They were the first manufacturers of low capacity air space telephone cables. The first to use earthenware troughs for laying cables underground on the solid system, and are the only users of segmental strips for the outer of concentric cables.

It may fairly be said, without any exaggeration, that there are few of the modern improvements in cable manufacture and handling that have not originated at Prescott.



## The B. I. W. Co., Ltd.

Many of the improvements mentioned above, and others for detailed processes, have been protected by Patents. The Company now hold some 50 Patents connected with the art of cable making.

Other improvements remain, for purposes of policy easily understood, as secret processes.

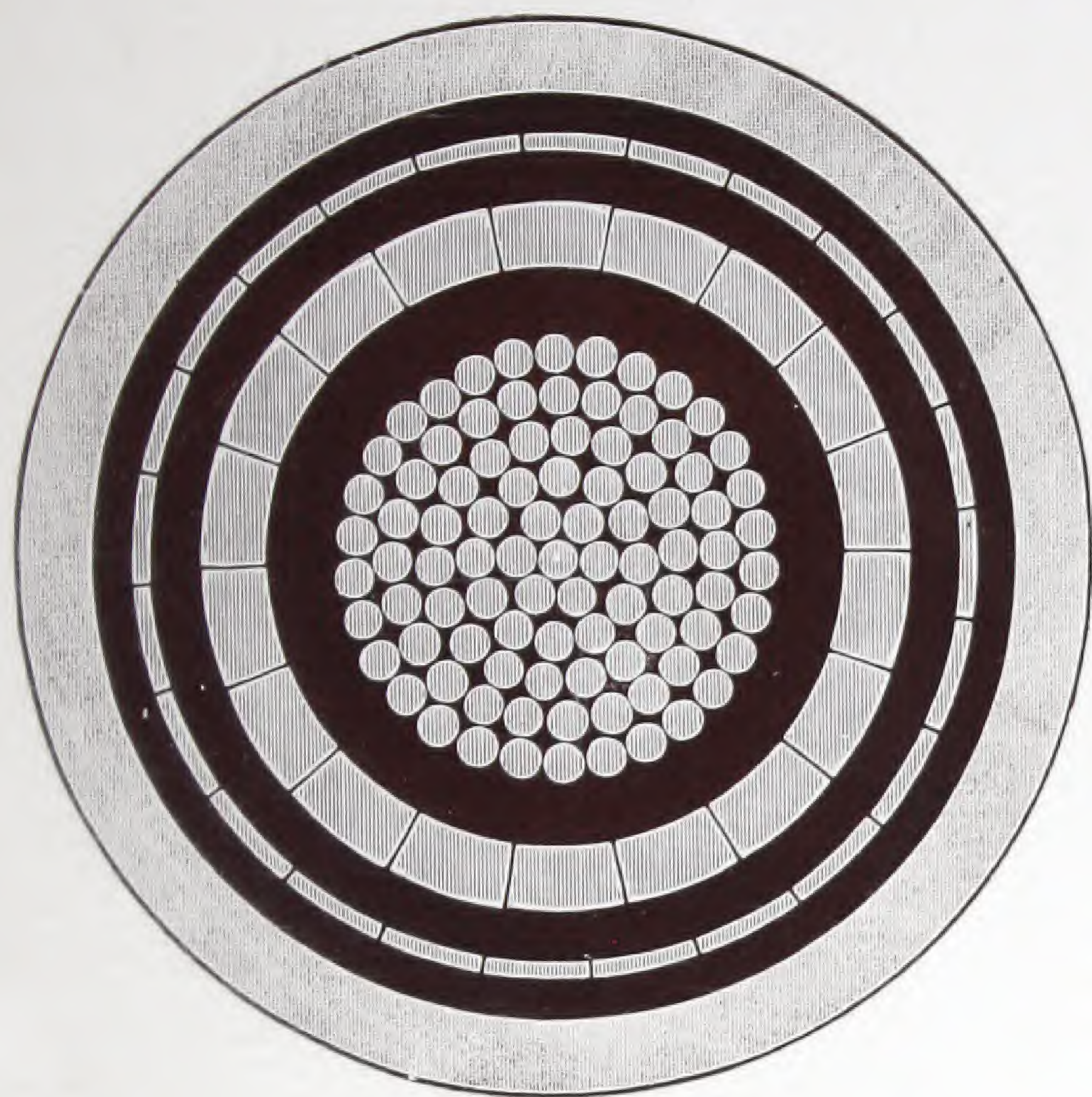
A few of the Company's specialities in cables are shewn on the pages following. They have many other standard types of cables, and over 300 designs of joint boxes and fittings for underground work.

THE BRITISH INSULATED WIRE COMPANY are prepared to undertake the making and laying complete of cables, on any system, for electric light, tramways, telephones, and transmission of power. The building of sub-stations, the erection of overhead or underground tramway gear, the laying of tramway tracks, cable conduits, and, in short, to undertake and guarantee the whole of the work outside the Lighting Station, Power-house, or Telephone Exchange.





The B. I. W. Co., Ltd.



### TRIPLE CONCENTRIC CABLE.

Conductors 1 sq. inch  $\times$  1 sq. inch  $\times$  .3 sq. inch section, paper insulated, and lead covered, for a working pressure of 440 volts. Tested at the Factory to 2,500 volts alternating, and short samples, to a break-down pressure of 30,000 volts alternating. Similar cables have been supplied to Glasgow, Charing Cross and Strand Co., Bendigo, Bolton, Hackney, St. Helens, Leith, Kensington, and others.



**The B. I. W. Co., Ltd.**



**312 PAIR  
AIR SPACE TELEPHONE CABLE.**

Conductors  $\frac{1}{12}$  S. W. G. Capacity below .07 microfarads per mile. Insulation resistance 10,000 megohms per mile. Similar cables have been supplied to H.M. Government, G.P.O. Queensland Government, Cape of Good Hope Government, States of Guernsey, National Telephone Co., Ltd., L. & N. W. Railway Co., L. & Y. Railway Co., Midland Railway Co., Yokohama, Glasgow Corporation, Leeds Corporation, Southport Corporation.



The B. I. W. Co., Ltd.

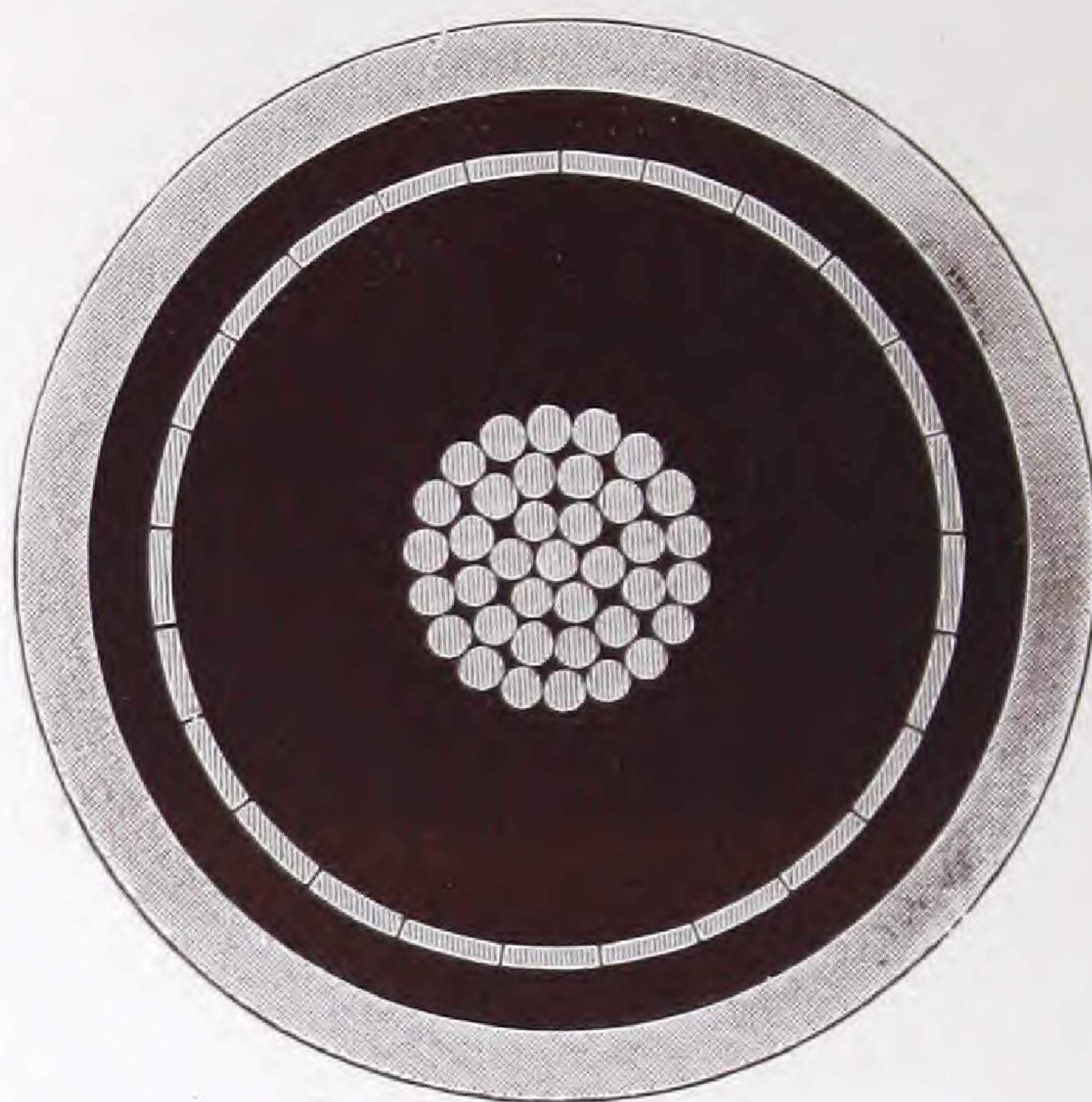


**PATENT 3-CORE CABLE FOR  
TRI-PHASE WORKING.**

Conductors  $\cdot 15$  sq. inch section, paper insulated and lead covered, for a working pressure of 5,000 volts. Tested at the Factory to 20,000 volts alternating, and short samples, to a break-down pressure of 40,000 volts alternating. Similar cables have been supplied to Manchester, Notting Hill, Kensington, Sydney, Newcastle, Dublin, Halifax and others.



The B. I. W. Co., Ltd.

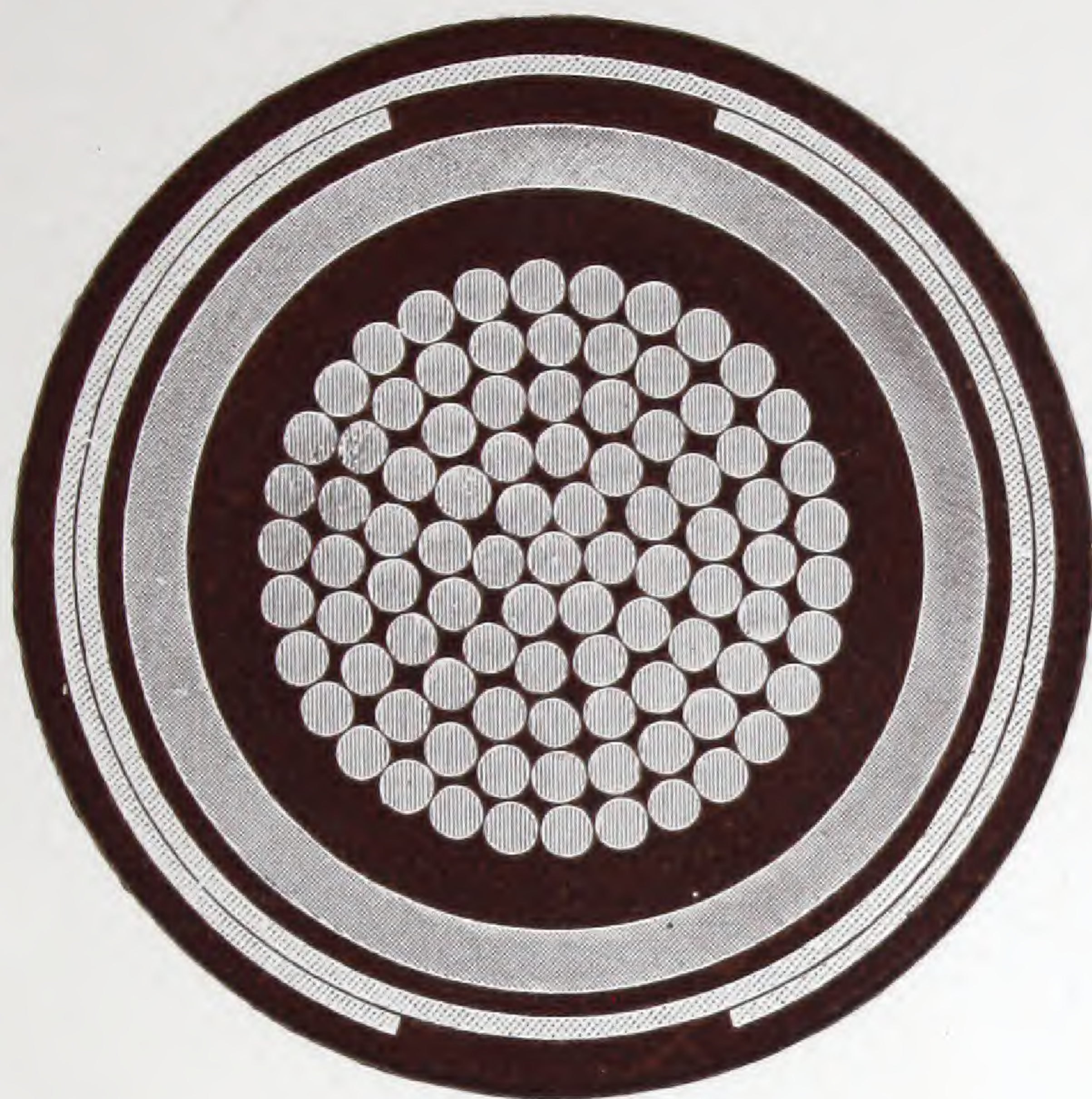


## HIGH TENSION CONCENTRIC CABLE.

Conductors  $\cdot 25$  sq. inch  $\times$   $\cdot 25$  sq. inch section, paper insulated and lead covered, for a working pressure of 11,000 volts. Tested at the Factory to 20,000 volts alternating, and short samples, to a break-down pressure of 92,000 volts alternating. Similar cables have been supplied to The London Electric Supply Corporation, Ltd., and to The Metropolitan Electric Supply Co., Ltd.



The B. I. W. Co., Ltd.



### ARMOURED SINGLE CABLE.

Conductor 1.5 sq. inch section, paper insulated and lead covered, for a working pressure of 500 volts. Tested at the Factory to 2,500 volts alternating, and short samples, to a break-down pressure of 30,000 volts alternating. Similar cables have been supplied to Bradford, Aberdeen, Notting Hill, Kensington, St. Helens, Newcastle, Bolton, Calcutta, Melbourne, Bootle, St. Pancras and others.



The B. I. W. Co., Ltd.



**PATENT TWO-PHASE CABLE WITH  
COMMON RETURN.**

Conductors  $\cdot 4$  sq. inch  $\times$   $\cdot 14$  sq. inch  $\times$   $\cdot 2$  sq. inch section, paper insulated and lead covered, for a working pressure of 7,500 volts between the inner conductors and between outer and inner. Tested at the Factory to a pressure of 20,000 volts alternating, and short samples, to a break-down pressure of 50,000 volts alternating. Similar cables have been supplied to the Midland Electric Corporation for Power Distribution, Ltd., and Leeds Corporation.



The B. I. W. Co., Ltd.



### **PATENT SIX-CORE CABLE.**

Conductors  $\cdot 5$  sq. inch  $\times$   $\cdot 5$  sq. inch  $\times$   $\cdot 2$  sq. inch, and three pilots  $\cdot 0043$  sq. inch section, paper insulated and lead covered, for a working pressure of 440 volts. Tested at the Factory to 2,500 volts alternating, and short samples, to a break-down pressure of 30,000 volts alternating. Supplied to the Poplar Borough Council.



**The B. I. W. Co., Ltd.**

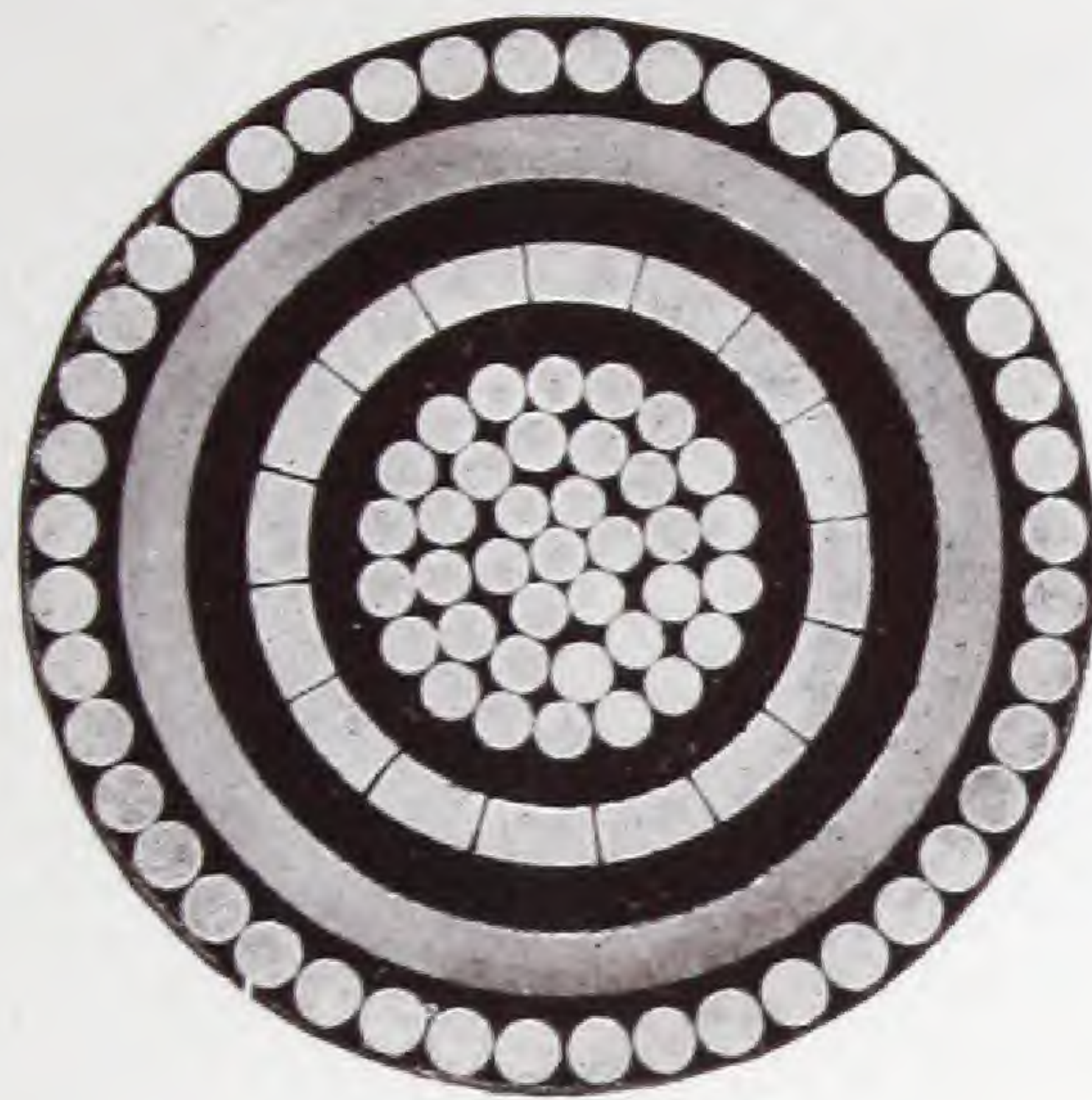


### **PATENT TWIN CABLE.**

Hammered conductors, paper insulated and lead covered, for a working pressure of 2,000 to 3,000 volts. Tested at the Factory to 12,000 volts alternating, and short samples, to a break-down pressure of 30,000 volts alternating. Similar cables have been supplied to Brompton, Blackpool, Shoreditch, Cardiff, City of London, Hanley, Southport, Portsmouth, South Shields.



## The B. I. W. Co., Ltd.

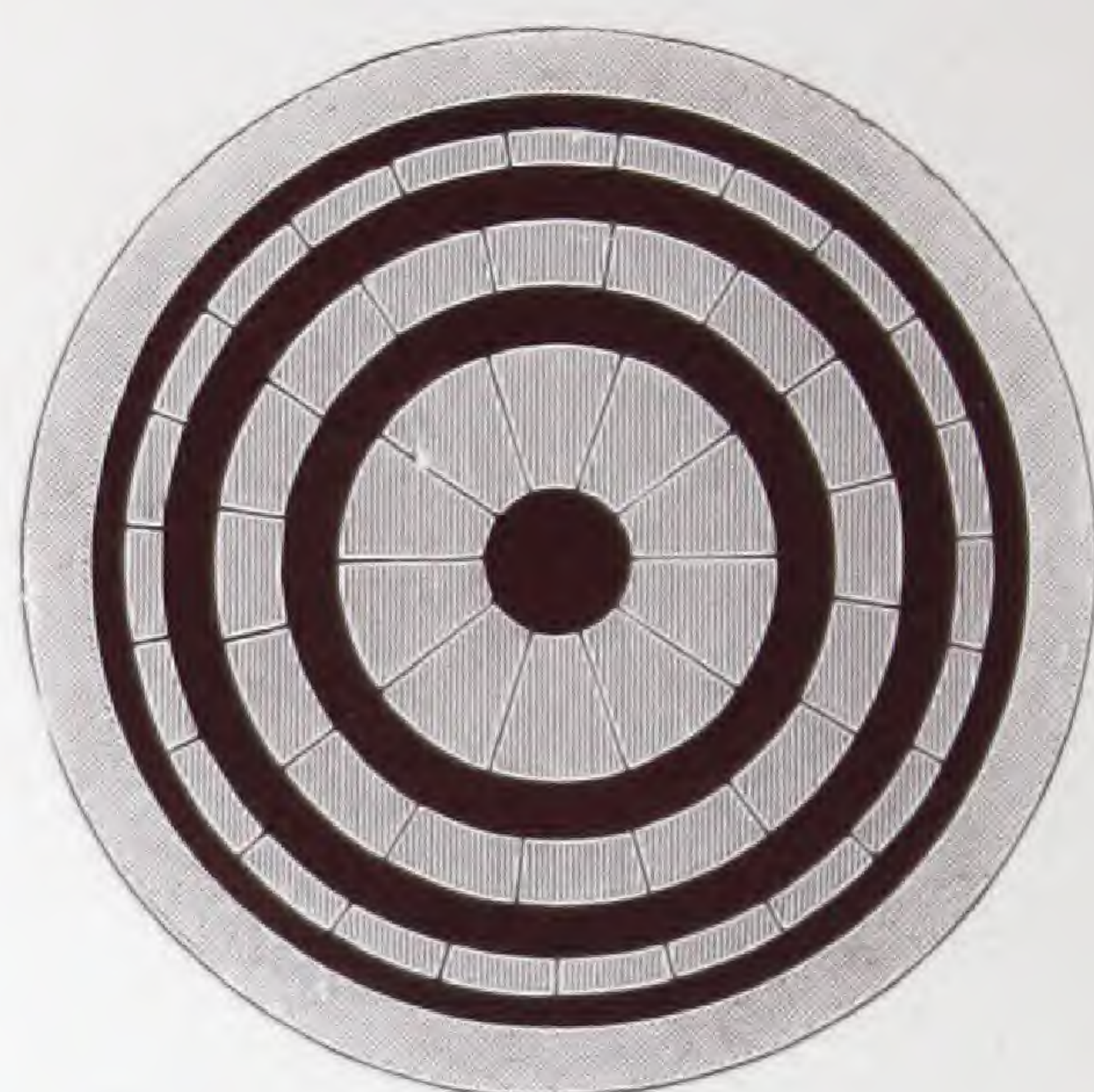


### ARMOURED CONCENTRIC CABLE.

Conductors  $\cdot 2$  sq. inch  $\times$   $\cdot 2$  sq. inch section, paper insulated and lead covered, for a working pressure of 220 volts. Tested at the Factory to a pressure of 2,500 volts alternating, and short samples, to a break-down pressure of 20,000 volts alternating. Similar cables have been supplied to Ashton-under-Lyne, Altrincham, Bray, Brompton, Bangor, Blackpool, City of London, Derby, Edinburgh, Eastbourne, Fulham, Farnworth, Glasgow, Hanley, Kensington, Leeds, Norwich, Plymouth, Sunderland, St. Helens, Torquay.



The B. I. W. Co., Ltd.

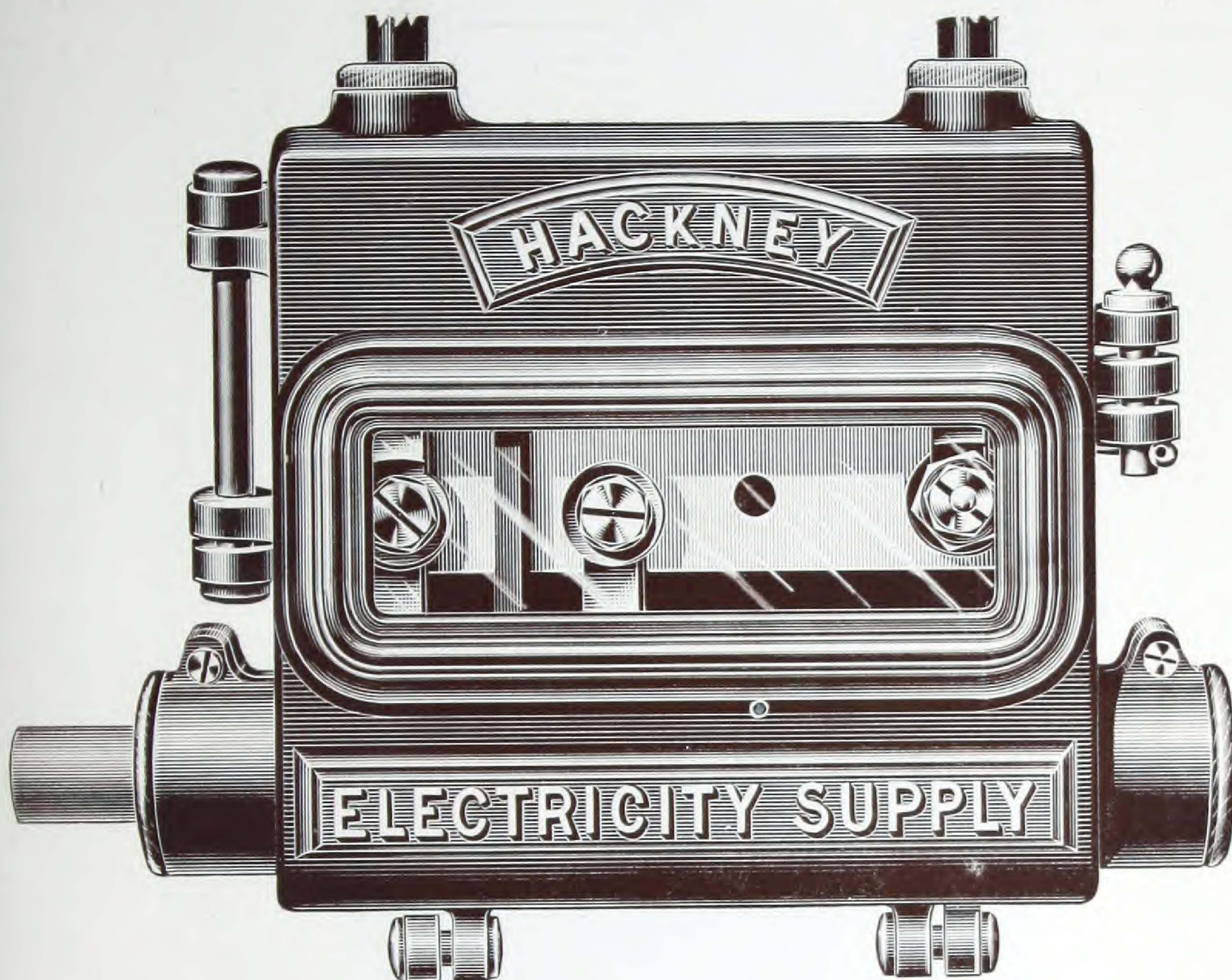


### TRIPLE CONCENTRIC CABLE.

Conductors  $\cdot 4$  sq. inch  $\times$   $\cdot 4$  sq. inch  $\times$   $\cdot 15$  sq. inch section, paper insulated and lead covered for a working pressure of 440 volts. Tested at the Factory to a pressure of 2,500 volts alternating, and short samples to a break-down pressure of 20,000 volts alternating. Similar cables have been supplied to Beckenham, Bolton, Chesterfield, City of London, Grimsby, Glasgow, Hackney, Leeds, Leith, Middlesbrough, Metropolitan, Co., Ltd., Partick, Rathmines, West Bromwich and others.



The B. I. W. Co., Ltd.

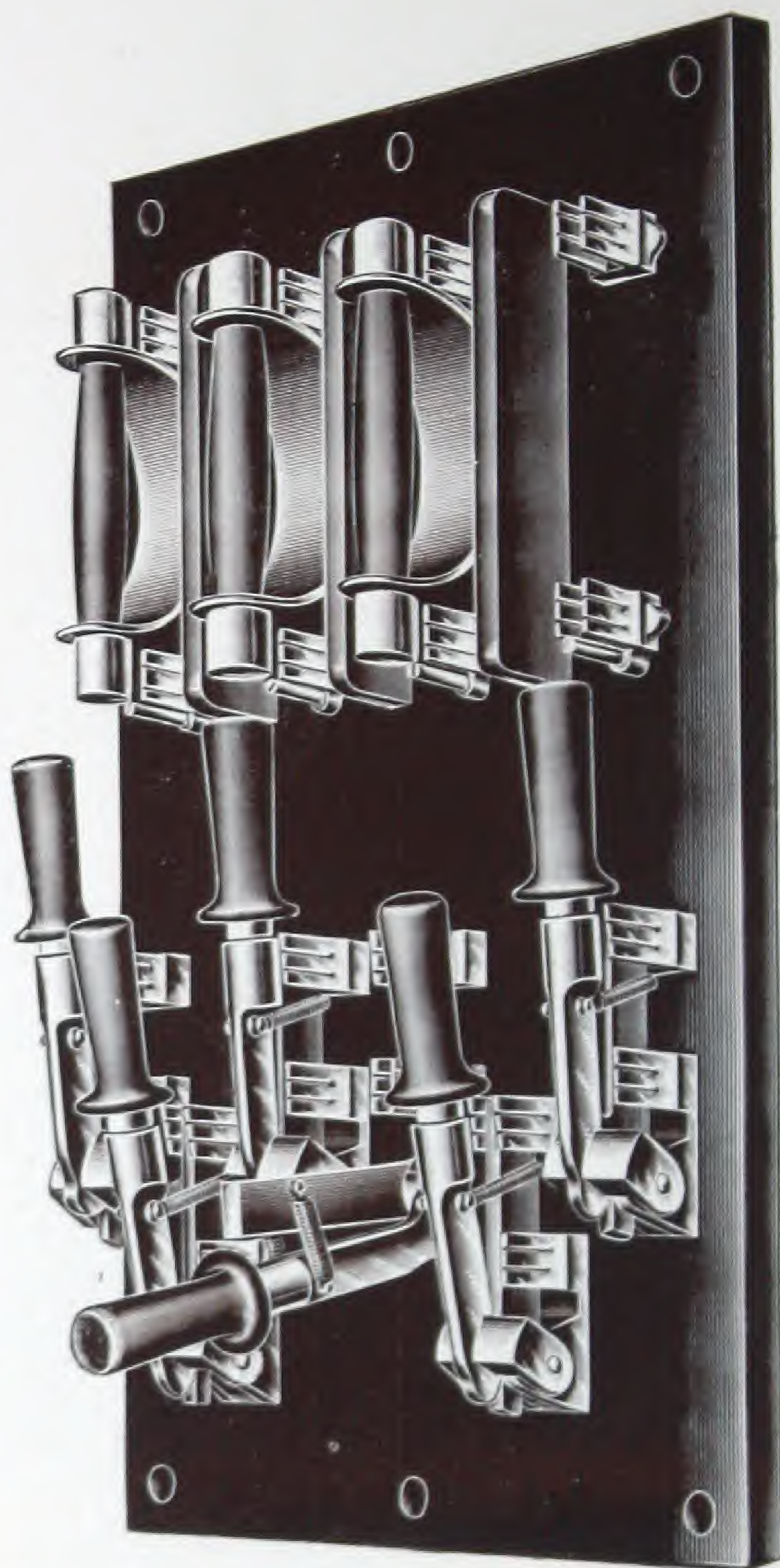


### HOUSE CUT-OUT BOX.

This box is so arranged that the main cable can enter into a separate sealing compartment from the right or left hand. The covers are hinged and interlocking, and the box is provided with a sealing device. In six months the sales of this box exceeded 3,000.



The B. I. W. Co., Ltd.



## STANDARD TYPE OF SECTION PANEL.

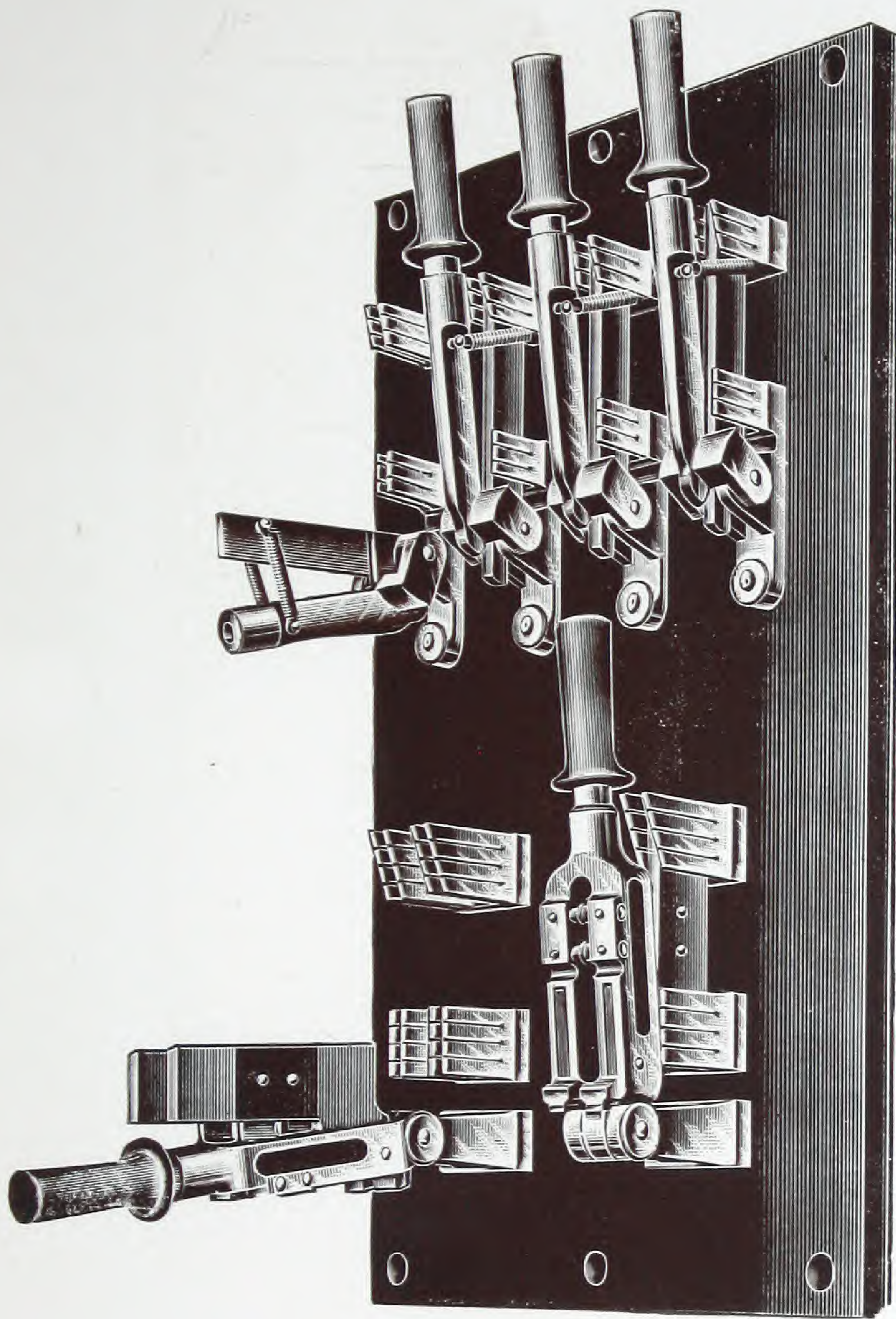
PILLARS FITTED WITH SIMILAR PANELS HAVE BEEN SUPPLIED TO

ABERDEEN  
BIRKENHEAD  
BLACKPOOL AND FLEETWOOD  
BLACKPOOL  
BENDIGO  
CAMPS BAY  
CLEETHORPES  
CALCUTTA

DARWEN  
GRIMSBY  
PORTSMOUTH  
PRESCOT TO LIVERPOOL  
ST. HELENS  
STOCKPORT  
VICTORIA



The B. I. W. Co., Ltd.

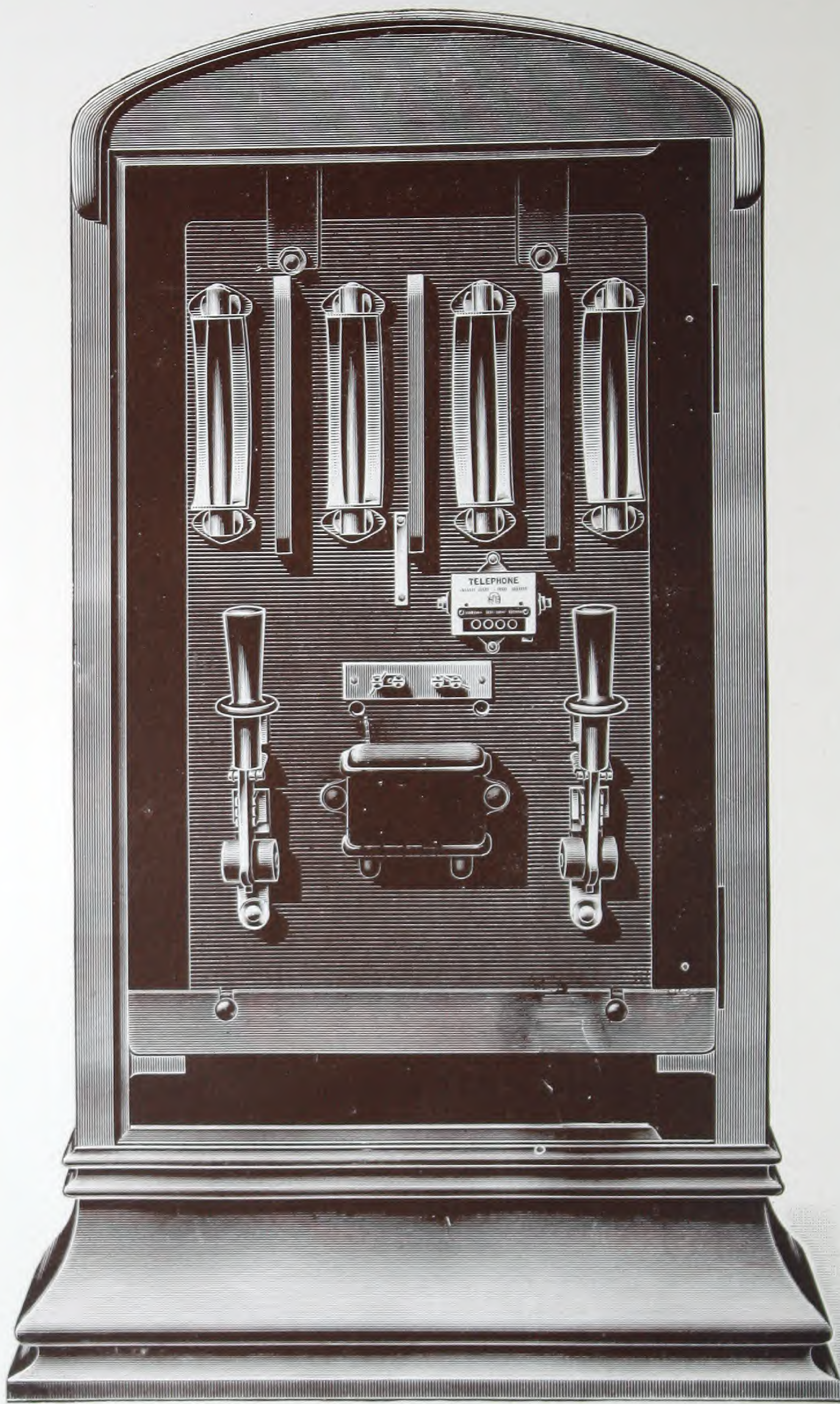


## TYPE OF SECTION PANEL

AS USED ON THE

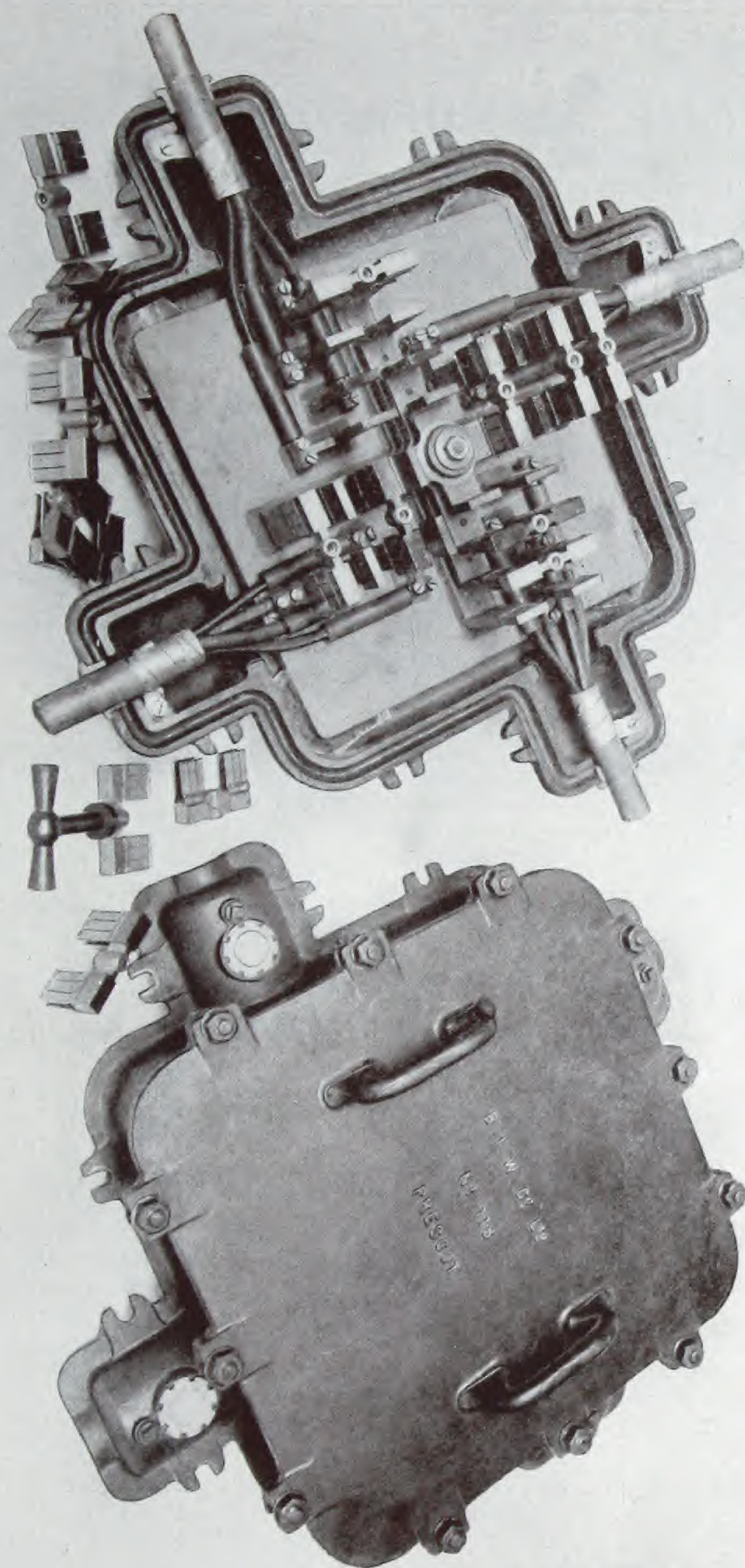
NEWCASTLE-ON-TYNE CORPORATION TRAMWAYS.





STANDARD TYPE OF SECTION PILLAR.





FOUR-WAY FOUR-CORE BOX FOR TRI-PHASE WORKING WITH BALANCING WIRE.



# The B. I. W. Co., Ltd.

## OUR MANUFACTURES

ARE USED, AMONGST OTHERS, BY THE FOLLOWING:

H.M. Government G.P.O.  
Cape of Good Hope Government  
Crown Agents for the Colonies

Queensland Government  
Victorian Government  
London County Council

### TRAMWAY WORKS.

Aberdeen  
Ashton-under-Lyne  
Blackpool  
Blackpool & Fleetwood  
Bolton  
Bradford  
Bristol  
Buenos Ayres & Belgrano  
Calcutta  
Camps Bay  
Cape Town  
City & South London  
Colombo  
Cork  
Coventry  
Devonport & District Trams Co.  
Dublin  
Dudley

Dundee  
Farnworth  
Glasgow  
Halifax  
Hill of Houth  
Isle of Thanet  
Kidderminster  
Manchester  
Newcastle  
Norwich  
Oldham, Ashton & Hyde  
Plymouth  
Portsmouth  
River Plate  
St. Helens  
Sheffield  
Stockport  
Wolverhampton

### LIGHTING WORKS,

CORPORATIONS AND COMPANIES OPERATING IN THE FOLLOWING TOWNS

Aberdeen  
Aberystwyth  
Altrincham  
Ashton-under-Lyne  
Ayr  
Bangor  
Barnsley  
Barrow-in-Furness  
Beckenham  
Bedford  
Belfast  
Bexhill  
Blackpool  
Bolton  
Bootle  
Bournemouth  
Bray  
Bradford  
Bridlington  
Brighton  
Bristol  
Burnley  
Burton  
Cambridge  
Canterbury

Cardiff  
Chagford  
Chesterfield  
Chelmsford  
Chiswick  
Coatbridge  
Colne  
Cork  
Coventry  
Darwen  
Derby  
Dewsbury  
Dover  
Dublin  
Dundee  
Eastbourne  
Eccles  
Edinburgh  
Exeter  
Fareham  
Farnworth  
Fulham  
Glasgow  
Grimsby  
Harwich

Huddersfield  
Hanley  
Hull  
Harrogate  
Halifax  
Hastings  
Hindhead  
Hove  
Kendal  
Keswick  
Kidderminster  
Killarney  
Kilmarnock  
Leeds  
Larne  
Leicester  
Lancaster  
Leith  
Leigh  
Leyton  
Liverpool District  
Llandudno  
Manchester  
Morecambe  
Middlesbrough



# The B. I. W. Co., Ltd.

## LIGHTING WORKS.—Continued.

Milford (Co. Carlow)  
 Northwich  
 Norwich  
 Newcastle  
 Northampton  
 Nelson  
 Northallerton  
 Oldham  
 Pemberton  
 Plymouth  
 Preston  
 Portsmouth  
 Prescott  
 Paisley  
 Rottingdean  
 Rathmines & Rathgar  
 Saltburn  
 Scarborough  
 Southport  
 Sheffield  
 South Shields  
 St. Helens  
 Salford  
 Sunderland  
 St. Annes-on-Sea  
 Tunbridge Wells  
 Taunton  
 Torquay  
 Wakefield  
 Worcester  
 Wallasey

Hackney  
 Hampstead  
 Islington  
 Southwark  
 Poplar

Blackheath & Greenwich Co.  
 Brompton & Kensington Co.  
 Charing Cross & Strand Co.  
 Chelsea Co.  
 Chatham, Rochester & District Co.  
 City of London Co.  
 County of London & Brush Co.  
 Crystal Palace & District Co.  
 House to House Co.  
 Kensington & Knightsbridge Co.

Gt. Eastern Rly.  
 Gt. Northern Rly.  
 Lancashire & Yorkshire Rly.  
 London and North-Western Rly.  
 Midland Rly.

Bristol Docks

Armstrong, Sir W. G.  
 Whitworth & Co., Ltd.  
 Brown, J. & C., Ltd. (Clydebank)

Altham & Gt. Harwood Collieries  
 Carlton Main Collieries

Whitehaven  
 Windermere  
 Wigan  
 West Ham  
 Wolverhampton  
 Warrington  
 West Bromwich  
 Worksop  
 Yarmouth

Adelaide  
 Bendigo  
 Ballarat  
 Brisbane  
 Barcelona  
 Buenos Ayres  
 Cape Town  
 Candy  
 Colombo  
 Coolgardie  
 Durban  
 Freemantle  
 Geelong  
 Lagos  
 Malaga  
 Malta  
 Madrid  
 Melbourne  
 Sydney  
 Yokohama

St. Giles', Holborn  
 St. Pancras  
 Shoreditch  
 Stepney

London Electric Supply Co.  
 Metropolitan Co.  
 Midland Electric Power Co.  
 National Electric Wiring Co.  
 New Brighton Tower Grounds  
 Notting Hill E. L. Co.  
 South London E. S. Co.  
 S. James' & Pall Mall Co.  
 Sydenham Co.  
 Westminster Co.

North Eastern Rly.  
 Gt. North Scotland Rly.  
 North Staffordshire Rly.  
 Victorian Rlys.

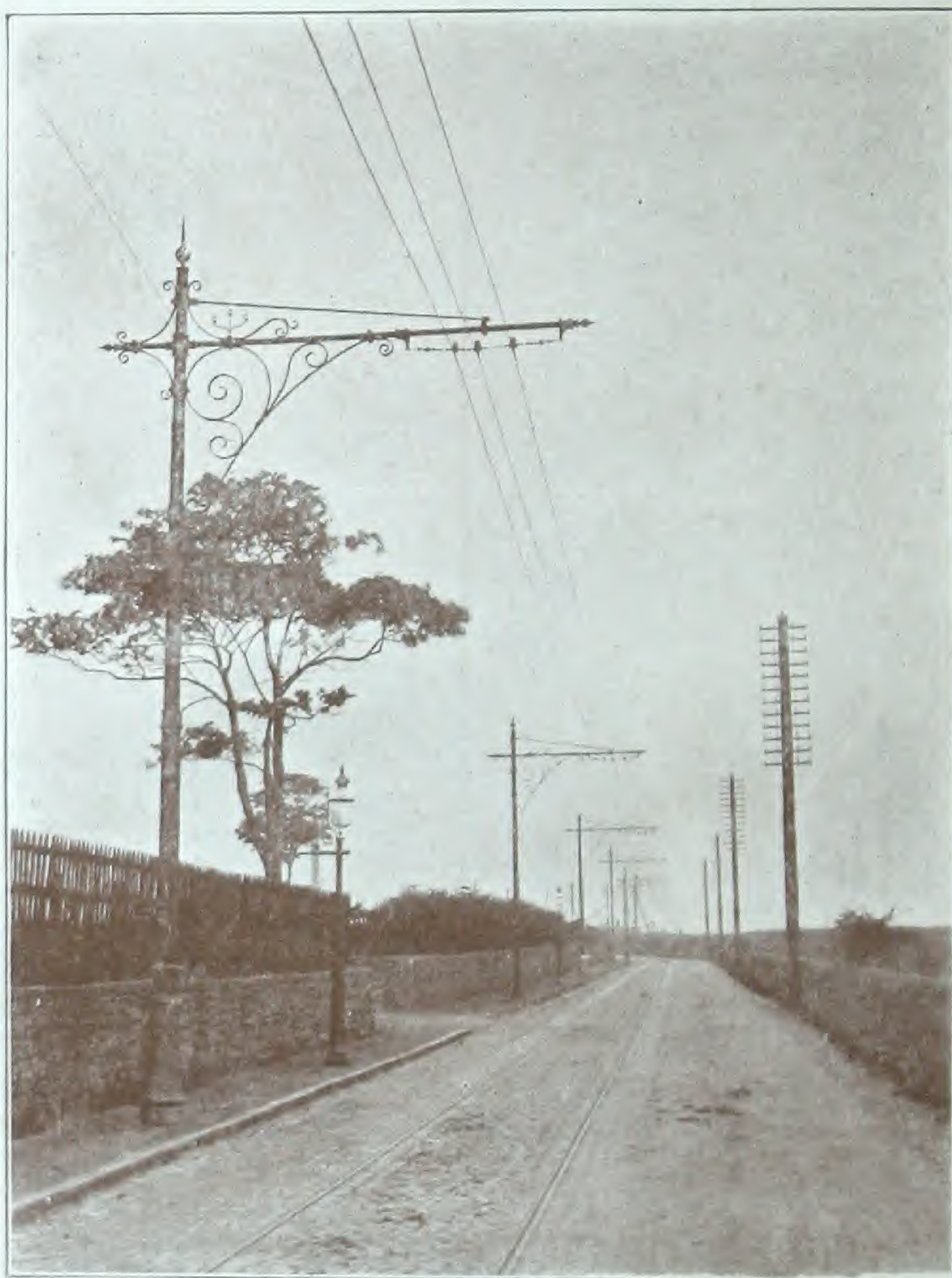
Tyne Docks

Palmer's Shipbuilding & Iron Co., Ltd.  
 Thames Iron Works & Shipbuilding  
 Co., Ltd.

Hedley's Collieries  
 Stanton Iron Works & Collieries



# The British Insulated Wire Co., LIMITED.



BRACKET-ARM CONSTRUCTION AT ST. HELENS.

PRESCOT, LANCs.,

ENGLAND.



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